

there are vehicles  
available today that  
reduce air pollution  
and increase  
fuel economy!

Manufacturers are making several types of vehicles that either use alternate fuels or use an internal combustion/ electric motor. Here are two types of alternative vehicles available now:

**Hybrid/Electric Vehicle (HEV)** — This type of vehicle uses a combination of an internal combustion engine and an electric motor to run. Advantages to driving an HEV:

- Twice the fuel economy of a conventional vehicle.
- Lower emissions and better for the environment.
- Uses regular gasoline, and it recharges itself!

**Alternative Fuel Vehicle (AFV)** — This type of vehicle uses an alternative fuel source other than petroleum. Advantages to driving an AFV:

- Better for the environment because alternative fuels reduce ozone-forming tailpipe emissions.
- Alternate fuels reduce the dependency on foreign oil.
- Some alternate fuels come from corn, soybean and other products, which increases the demand for these types of agricultural crops.

To find out more about alternative vehicles visit these websites:  
[www.fueleconomy.gov/](http://www.fueleconomy.gov/)  
[www.epa.gov/otaq/](http://www.epa.gov/otaq/)  
[www.ott.doe.gov/hev](http://www.ott.doe.gov/hev)

## remember

The best way to reduce vehicle emissions is to drive less!

- Combine errands to reduce driving time.
- Drive during low traffic hours.
- Carpool to work, school and social events.
- Shop by phone or internet.
- Bring a lunch to work.

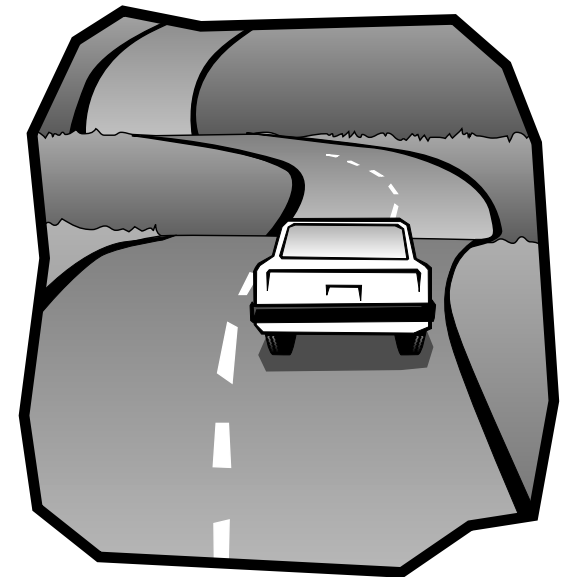
This information is brought to you by:

The South Carolina Department of Health and Environmental Control/Bureau of Air Quality, in cooperation with Broward County, Florida/Department of Planning and Environmental Protection, Air Quality Division.

For more information,  
call (803) 898-4297  
Or visit [www.scdhec.net/baq](http://www.scdhec.net/baq)



driving  
smarter  
for  
tomorrow



tips to:

Save you money

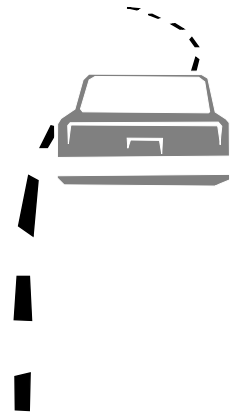
Reduce air pollution

Maximize fuel economy

Improve safety and reliability

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remember



tips to:

## motor vehicles and air pollution

Currently in South Carolina, there are approximately 3.2 million registered motor vehicles. In 1965, there were 11.5 billion miles traveled on SC roads. Since then, the miles traveled on the State's roads has nearly quadrupled to 45.6 billion miles. This is a concern because motor vehicles, also known as mobile sources, are the major contributor to ground-level ozone air pollution in South Carolina. Mobile sources emit hydrocarbons and nitrogen oxides, which react in the presence of heat and sunlight to produce ground-level ozone pollution. Mobile sources also emit particulate matter and carbon monoxide. These types of air pollution can have negative effects on public health and the environment.

## did you know that:

- If all drivers in the US kept their tires properly inflated, 2 million gallons of gas could be saved per day!
- Drivers in the US travel over 2 trillion miles annually, enough to go to the sun and back more than 10,000 times!
- A poorly-maintained vehicle can release up to 100 times more air pollution than a well-maintained one.
- During the 1996 Summer Olympics in Atlanta, Georgia, a reduction in car use led to improved air quality and a significant reduction in emergency room visits for asthma.

## effects of air pollution

Pollution emitted into the air from mobile sources is a concern because it affects human health and the environment. It can aggravate existing health conditions, such as heart disease and lung diseases like bronchitis, asthma and emphysema. These pollutants can also irritate the throat, make it harder to breathe and cause chest pains, coughing, nausea and congestion. Anyone can be affected by air pollution, even healthy people. Air pollution also has a negative affect on the environment. Ground-level ozone pollution reduces plant growth, therefore damaging agriculture in the state. Other forms of air pollution can be detrimental to buildings, statues and the beauty of national parks, including the scenic view of the Great Smoky Mountains.



## maintenance and driving tips

### Improve Fuel Economy and Reduce Air Pollution

- **Keep tires properly inflated** — Properly inflated tires increase fuel economy and decrease tire wear. Check the owner's manual or the inside of the driver's door for proper inflation instructions and schedule.
- **Get regularly scheduled tune ups** — Proper car maintenance saves money on gas and repairs, increases engine life and reduces air pollution.
- **Use the fuel type recommended for your vehicle** — These recommendations are provided to ensure that your vehicle runs better and gets the maximum fuel economy possible.
- **Avoid long idling** — It's more efficient to turn the engine off and restart it. This also reduces air pollution.
- **Place items inside the vehicle or trunk** — This will reduce the drag on your vehicle; items on the roof will increase drag while the vehicle is moving.
- **Use cruise control** — Maintaining a steady speed will increase fuel economy.
- **Use the overdrive** — Using overdrive on the highway and turning it off while in town will increase the life of the motor and will save on gas.
- **Don't "top off" the gas tank** — Fuel expands in warm weather and can cause an overflow, and topping off the tank allows more vapors to escape into the air.

**Give your car a break!**  
Take the bus, carpool, or  
walk instead of driving!

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